

550217

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085454 A1

- (51) International Patent Classification⁷: C07H 21/00, 19/16, 19/06, 19/10, 19/20
- (21) International Application Number: PCT/GB2004/001196
- (22) International Filing Date: 19 March 2004 (19.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0306657.8 24 March 2003 (24.03.2003) GB
- (71) Applicant (for all designated States except US): AVECIA LIMITED [GB/GB]; Hexagon House, Blackley, Manchester M9 8ZS (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MOODY, David, John [GB/GB]; Earls Road, Grangemouth, Stirlingshire FK3 8XG (GB). MCCORMAC, Paul [GB/GB]; Earls Road, Grangemouth, Stirlingshire FK3 8XG (GB). BARRON, Sarah, Anne [GB/GB]; Earls Road, Grangemouth, Stirlingshire FK3 8XG (GB).
- (74) Agents: REVELL, Christopher et al.; Avecia Limited, Intellectual Property Group, P.O. Box 42, Hexagon House, Blackley, Manchester M9 8ZS (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/085454 A1

(54) Title: SILYLATED OLIGONUCLEOTIDE COMPOUNDS

(57) Abstract: Oligonucleotide comprising at least one internucleotide phosphorus atom protected with a group of formula -X^aSiR³R⁴R⁵ provided. X^a represent 0 or S, and R³, R⁴ and R⁵ each independently are optionally substituted hydrocarbyl groups, selected such that the total number of carbon atoms in R³ plus R⁴ plus R⁵ is 4 or more. Process for the preparation of these oligonucleotides, intermediate compounds useful therein, and process for the preparation of the intermediate compounds are also provided.